# PREFACE

The 22nd International Legal Informatics Symposium deals with the Internet of Things, an essential trend of the knowledge and network society with multiple legal implications pertaining also to Legal Tech and data protection.

The Internet of Things (IoT) is the network of objects – physical devices, (autonomous) vehicles, and other things – with an embedded computer system that makes them uniquely identifiable and also enables them to exchange data and communicate using the Internet infrastructure. The Internet of Things is a realization of the network society and the success of modern technology and mathematically oriented rationalism. The ideas and patterns, however, have existed for a long time. Since the industrial age, it has been about the domestication of machines by humans and, as an undesirable side effect, the domestication of humans by machines have also been at stake. On the Internet of Things, humans are now confronted by a thing controlled by algorithms.

Legally, things capable of communication are a new reality. Legal transactions are increasingly concluded and executed automatically. Decisions are often no longer made by humans, but by algorithmic decisionmaking systems. Vehicles are getting more and more support systems. Smart Contracts and Blockchain are intensively discussed. The legal system is facing a radical change due to the increasing use of technology.

As usual, the conference proceedings include new scientific findings as well as contributions on practical problems and applications of legal informatics. The multimedia publication in cooperation with Editions Weblaw will be continued.

The conference proceedings are divided into the following thematic groups:

- Internet of Things (general topic)
- Autonomous driving
- Blockchain / Smart contracts
- LegalTech / Legal informatics systems
- Legal information & search technologies
- Robolaw
- Theory of legal informatics
- E-government & e-justice

- E-democracy, e-participation & e-legislation
- Legal theory
- Legal visualization / Legal design
- Security & law
- Data protection
- IP law
- E-commerce
- E-procurement

The organizers of IRIS 2019 are indebted to many people who have contributed to making this scientific platform of legal informatics possible. The many stakeholders are listed on the following pages. Particularly noteworthy are the Universities of Vienna (ARI Working Group on Legal Informatics in cooperation with the WZRI Vienna Centre for Legal Informatics) and Salzburg (Centre Law, Economics, World of Work), the programme chairman *Erich Schweighofer*, and the co-chairs *Franz Kummer* and *Ahti Saarenpää*; the local coordinator *Maria Stoiber* and the local organisation team at the University of Salzburg under the leadership of *Dietmar Jahnel* and *Peter Mader* as well as the Viennese organisation team.

Our heartfelt thanks go to the authors for their contributions, which have been edited with the utmost care.

Conference proceedings are documentations of snapshots of science, namely of the cherished and cultivated meetings of the scientific community. The IRIS concept provides for the greatest possible dissemination of the results. In addition to the printed conference proceedings, Editions Weblaw also publishes an online version in the journal Jusletter IT (https://www.jusletter-it.eu). The online version of numerous articles that have not found a place in the printed edition is made available to interested readers. The conference proceedings published to date (since 2000) can be found in the Jusletter IT archive.

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We hope that this printed and online conference volume will be met with similar interest as the conference volumes of previous years!

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*Erich Schweighofer, Franz Kummer und Ahti Saarenpää*